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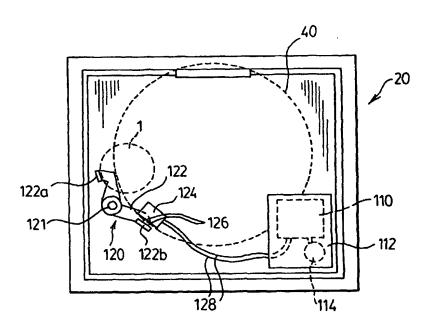
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with international search report

[Continued on next page]

#### (54) Title: A TRACKING SYSTEM FOR VENDING MACHINES



(57) Abstract: A tracking system counts events in the operation of multiple machines or devices over a wide geographic area. For example, for bulk venders the system counts each vend responsive to rotation through a cycle of the coin mechanism, and preferably records the date and time of each vend. An active tag has a memory for storing data representing a vending event, for example the date and time of the event. The data is periodically read by an interrogator, which downloads the data stored in the tag memory and erases the memory to reset the tag for continued monitoring of the vender. With this information an operator can reconcile revenues, track when sales take place and over what period of time, and track the work habits of service personnel.



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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.





A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G07F1/00 G07F9/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) I PC  $\,7\,$  G07 F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

#### EPO-Internal

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 986 033 A (MARS INC)	1-9
Υ	15 March 2000 (2000-03-15) abstract; claims 1,15,27; figures 2,38,25 paragraphs [0020] - [0028], [0073]	10-12
Υ .	US 5 954 181 A (SCHWARZLI JOSEF W) 21 September 1999 (1999-09-21)	10-12
A	cited in the application abstract; figures 1-5	13,14
A	DE 196 18 962 A (K B SOFTWARE GMBH) 13 November 1997 (1997-11-13) abstract; claims 1-15	1-14
A	US 4 412 292 A (SEDAM JASON K ET AL) 25 October 1983 (1983-10-25) abstract; claims 3-7,11; figure 2	1-14
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X Further documents are listed in the continuation of box C.	X Patent family members are listed in annéx.
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  "&" document member of the same patent family
Date of the actual completion of the International search  6 April 2004	Date of mailing of the international search report  19.04.2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Höhn,M



In Plational Application No
PCT/CA 03/00263

		PCI/CA US	PCT/CA 03/00263		
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.		
X	US 3 776 338 A (JOHNSON K) 4 December 1973 (1973-12-04) column 1, lines 14-27		15,16		
X	US 3 559 788 A (BRITTON LEON R ET AL) 2 February 1971 (1971-02-02) abstract; claims 10,12; figure 4		15,16		
X	DE 44 37 813 A (TRENNER D WH MUENZPRUEFER) 18 April 1996 (1996-04-18) abstract; figures 1,2		15,16		
X	DE 196 13 716 C (TRENNER D WH MUENZPRUEFER) 11 December 1997 (1997-12-11) abstract; figures 1,2		15,16		
A	DE 23 49 786 A (WITTENBERGE NAEHMASCH VEB) 19 December 1974 (1974-12-19) abstract; figures 3-5		16		
A	FR 2 744 282 A (VALEO CLIMATISATION) 1 August 1997 (1997-08-01) abstract; figures 1,5		16		
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## INTERNATIONAL SEARCH REPORT

international application No. PCT/CA 03/00263

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.:     because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of Invention is lacking (Continuation of item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-14

The first group of inventions concerns a tracking system for vending machines which comprises memory means and a transceiver for receiving instructions and for transmitting sensor data of the vending machine to an interrogator.

2. claims: 15, 16

The second group of inventions concerns an electro-mechanical mechanism for generating an electrical signal in a coin mechanism of a vending machine.



Information on patent family members

International Application No PCT/CA 03/00263

Patent document dted in search report		Publication date		Patent family member(s)	Publication date
EP 0986033	A	15-03-2000	AU	758958 B2	03-04-2003
<b>2</b> . <b>0</b> 000000	• • •		AU	4745299 A	16-03-2000
			EP	0986033 A2	15-03-2000
US 5954181	A	21-09-1999	BR	9802794 A	09-11-1999
			DE	19834732 A1	15-04-1999
			FR	2768535 A1	19-03-1999
			GB	2328059 A ,B	10-02-1999
DE 19618962	A	13-11-1997	DE	19618962 A1	13-11-1997
US 4412292	A	25-10-1983	AU	561884 B2	21-05-1987
			AU	5766286 A	06-11-1986
			ΑU	561947 B2	21-05-1987
			ΑU	5766386 A	06-11-1986
			AU	551692 B2	08-05-1986
			AU	8034582 A	26-08-1982
			CA	1166356 A1	24-04-1984
			DE	3205620 A1	16-09-1982
			ΙT	1149761 B	10-12-1986
			JP	1726468 C	19-01-1993
			ĴΡ	4001392 B	10-01-1992
			JΡ	57155685 A	25-09-1982
US 3776338	 А	04-12-1973	 AU	467007 B2	13-11-1975
			ΑU	5170873 A	08-08-1974
			BE	794880 A1	29-05-1973
			CA	989788 A1	25-05-1976
			DE	2304973 A1	30-08-1973
			ES	411238 A1	16-04-1976
			FR	2170230 A1	14-09-1973
			IT	984242 B	20-11-1974
			JP	48085297 A	12-11-1973
			LU	66942 A1	19-04-1973
			NL	7301515 A	07-08-1973
US 3559788	Α	02-02-1971	GB	1287523 A	31-08-1972
DE 4437813	Α	18-04-1996	DE	4437813 A1	18-04-1996
			DE ————	9421575 U1 	15-02-1996 
DE 19613716	С	11-12-1997	DE	19613716 C1	11-12-1997
DE 2349786	Α	19-12-1974	DD	105013 A1	05-04-1974
			CS	169099 B1	29-06-1976
			DE	2349786 A1	19-12-1974
			SU	554327 A1	15-04-1977 
FR 2744282	Α	01-08-1997	FR	2744282 A1	01-08-1997